

## **A.2.28 AOC 9B**

### **Description**

AOC 9B is located on the southeast side of Tank Basin 313 in the North Field. This AOC contains one monitoring well (NF-11) that was installed in 1992 to upgrade the site-wide groundwater monitoring network. This area was included as an AOC based on BTEX and naphthalene identified in the groundwater at the well; however, the type of waste/product is unknown. Figure A.2.25 depicts the area in the vicinity of AOC 9B.

No additional investigations of this AOC were performed during either the 1st-Phase Soils or the 1st-Phase Groundwater Investigations. As shown on Figure A.2.25 and summarized on Table A.2.25, one soil boring and analytical data from three soil samples have been used to characterize this AOC. Relevant data from the SWMU 22 (located approximately 100 feet south of NF-11) investigations have also been included in Table A.2.25 for delineation purposes.

### **Soils**

One boring (S0809) was installed in September 2002 during the Full RFI at the approximate location shown on Figure A.2.25 to provide additional characterization of this AOC. Evidence of petroleum impacts was noted in the fill material at depths ranging from 3.5 to 6 feet bgs. Three soil samples were collected from this boring including a surficial sample (1.5 to 2 feet bgs), an intermediate sample from the fill material with the highest PID reading (3.5 to 4 feet bgs), and a deep sample from the underlying peat and clay materials (14.5 to 15 feet bgs). These three soil samples were analyzed for VOCs, SVOCs and metals. As shown on Table A.2.25, none of the three samples from this boring contained any exceedances of the soil delineation criteria, except for naturally-occurring iron.

### **Groundwater**

The January, 2003 groundwater sample from NF-11 contained benzene (120 µg/L) above the applicable groundwater delineation criterion. Hydropunch samples collected in the vicinity of AOC 9B as part of the Phase II OWSS Groundwater Investigation in the Fall of 1999 also contained benzene above the groundwater delineation criterion. A more detailed discussion of groundwater quality in the area of AOC 9B can be found in Section 8 of the RFI Report.

### **Summary**

In summary, with the exception of naturally-occurring iron, no soil delineation criteria were exceeded in the three soil samples from this AOC. Therefore, soil in the vicinity of this AOC does not appear to be the source of groundwater impacts at monitoring well NF-11. However, AOC 9B is downgradient of the NF2 LNAPL Area, which is the

probable source of the dissolved benzene in this area. Impacted groundwater at AOC 9B will be further evaluated in the CMS.